IN THE CLAIMS

Claim 1 (currently amended). A fluid irradiation apparatus for the modification of viruses and bacteria, comprising:

a housing having an exterior side and an interior side, the interior side further defining an enclosure;

an irradiation station affixed to the housing;

a cuvette positioned across the irradiation station;

at least two ultraviolet light sources positioned adjacent to the cuvette;

~~means~~ an ivac bottle for drawing and transporting fluid through the cuvette;

means for receiving the fluid transported and irradiated through the cuvette;

means for enclosing the cuvette and irradiation station when the fluid irradiation apparatus is in use for minimizing the escape of ultraviolet light radiation; and

means for energizing the fluid irradiation apparatus.

Claim 2 (original). The fluid irradiation apparatus of Claim 1 wherein the cuvette is made of a quartz crystal material.

Claim 3 (original). The fluid irradiation apparatus of Claim 1 wherein the cuvette is made of a durable plastic material.

Claim 4 (original). The fluid irradiation apparatus of Claim 1 wherein the at least two ultraviolet light sources are, when in use, positioned on opposite sides of the cuvette.

Claim 5 (original). The fluid irradiation apparatus of Claim 1 wherein one ultraviolet light source is mounted in the enclosure and the other ultraviolet light source is mounted in a cover.

Claim 6 (original). The fluid irradiation apparatus of Claim 1 wherein the at least two ultraviolet light sources are calibrated in the UVA, UVB, or UVC light transmission band widths.

Claim 7 (original). The fluid irradiation apparatus of Claim 6 wherein the at least two ultraviolet light sources are calibrated between 40 and 400 nano meters.

Claim 8 (original). The fluid irradiation apparatus of Claim 1 wherein the means for drawing and transporting fluid through the cuvette is by a peristaltic pump.

Claim 9. (deleted).

Claim 10 (original). The fluid irradiation apparatus of Claim 1 wherein the means for receiving the fluid transported and irradiated through the cuvette is a bottle.

Claim 11 (original). The fluid irradiation apparatus of Claim 5 wherein the means for enclosing the cuvette and irradiation station when the fluid irradiation apparatus is in use is the cover.

Claim 12 (original). The fluid irradiation apparatus of Claim 1 and further comprising an on/off power switch, an on/off pump control switch, and an ultraviolet light control switch.

Claim 13 (currently amended). A fluid irradiation apparatus for the modification of viruses and bacteria contained in fluid, comprising:

a housing having an exterior side and an interior side, the exterior side further defining an aperture and the interior side further defining a hollow center;

a cuvette positioned across substantially the surface area of the aperture and aligned in a substantially parallel relationship with the housing;

a first ultraviolet light source located within the hollow center of the interior side of the housing and positioned parallel to the cuvette;

a cover having an exterior side and an interior side, the interior side further defining a chamber;

a second ultraviolet light source located within the chamber;

a lens for covering the second ultraviolet light source;

means for receiving the fluid transported through the cuvette;

means for transporting the fluid through the cuvette into the means for receiving the fluid;

means for returning the fluid back through the cuvette from the means for receiving the fluid;

whereby, the fluid transferred through the same cuvette is irradiated in at least two separate instances by both the first and second ultraviolet light sources.

Claim 14 (original). The fluid irradiation apparatus of Claim 13 and further comprising a means for drawing the fluid through the cuvette.

Claim 15 (original). The fluid irradiation apparatus of Claim 13 and further comprising a means for enclosing the cuvette when the fluid irradiation apparatus is in use.

Claim 16 (original). The fluid irradiation apparatus of Claim 13 and further comprising a means for controlling the operation of the fluid irradiation apparatus.

Claim 17 (original). The fluid irradiation apparatus of Claim 13 and further comprising a faceplate that is fitted within the aperture in the exterior side of the housing.

Claim 18. (deleted).

Claim 19 (original). The fluid irradiation apparatus of Claim 13 wherein the second ultraviolet light source is positioned, when in use, on the opposite side of the cuvette from the first ultraviolet light source.

Claim 20 (original). A method for modifying viruses and bacteria from fluid in the body, comprising the steps of:

(a) providing a fluid irradiation apparatus consisting of a housing and an irradiation station in the housing;

(b) removing fluid from the body and depositing the fluid into a conduit;

(c) transporting the removed fluid from the body along the conduit and into a cuvette;

(d) irradiating the removed fluid at the irradiation station within the cuvette by at least two ultraviolet light sources;

(e) transporting the irradiated fluid from the cuvette along the conduit and depositing the irradiated fluid into a container;

(f) removing the irradiated fluid from the container and depositing the fluid back into the conduit;

(g) transporting the irradiated fluid back through the same conduit and back into the same cuvette;

(h) irradiating the irradiated fluid within the cuvette by the at least two ultraviolet light sources to produce a second irradiated fluid;

(i) transporting the second irradiated fluid back through the same conduit from the cuvette;

(j) returning the second irradiated fluid into the body.

Claim 21 (original). The method of Claim 20 and the additional step of directing ultraviolet radiation from the at least two ultraviolet light sources at the cuvette.

Claim 22 (original). A method for modifying viruses and bacteria from fluid in the body, comprising the steps of:

(a) transporting fluid through a conduit into a cuvette;

(b) providing a plurality of ultraviolet light sources at the cuvette;

(c) irradiating the fluid in the cuvette as it passes the plurality of ultraviolet light sources to produce a first irradiated fluid;

(d) reversing the directional flow of the fluid to pass back through the same cuvette; and

(e) irradiating the first irradiated fluid as it passes the plurality of ultraviolet light sources a second time to produce a second irradiated fluid.